



EMSL Analytical, Inc.

15111 Northville Rd Plymouth, MI 48170

Tel/Fax: (734) 668-6810 / (734) 668-8532

<http://www.EMSL.com> / annarborlab@emsl.com

EMSL Order: 082301886

Customer ID: TEHC25A

Customer PO:

Project ID:

Attention: Brad Hartwell

Tetra Tech, Inc.

25213 Dequindre Rd

Madison Heights, MI 48071

Phone: (248) 875-2986

Fax:

Received Date: 08/23/2023 12:40 PM

Analysis Date: 08/23/2023

Collected Date:

Project: Hamilton St - Fire

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HSF-PACM-01-082223 <i>082301886-0001</i>		Black Non-Fibrous Heterogeneous	11% Fibrous (Other)	89% Non-fibrous (Other)	None Detected
HSF-PACM-02-082223 <i>082301886-0002</i>		Black Non-Fibrous Heterogeneous	2% Glass 10% Fibrous (Other)	<1% Quartz 88% Non-fibrous (Other)	None Detected
HSF-PACM-03-082223 <i>082301886-0003</i>		Black Non-Fibrous Heterogeneous	12% Fibrous (Other)	88% Non-fibrous (Other)	None Detected
HSF-PACM-04-082223 <i>082301886-0004</i>		Black Non-Fibrous Heterogeneous	8% Fibrous (Other)	92% Non-fibrous (Other)	None Detected
HSF-PACM-05-082223 <i>082301886-0005</i>		Black Non-Fibrous Heterogeneous	20% Cellulose	45% Perlite 35% Non-fibrous (Other)	None Detected
HSF-PACM-06-082223 <i>082301886-0006</i>		Black Non-Fibrous Heterogeneous	8% Fibrous (Other)	<1% Quartz 92% Non-fibrous (Other)	None Detected
HSF-PACM-07-082223 <i>082301886-0007</i>		Black Non-Fibrous Heterogeneous		2% Quartz 98% Non-fibrous (Other)	None Detected
HSF-PACM-08-082223 <i>082301886-0008</i>		Gray Fibrous Heterogeneous	<1% Cellulose 90% Glass	<1% Quartz 10% Non-fibrous (Other)	None Detected
HSF-PACM-09-082223 <i>082301886-0009</i>		Black Non-Fibrous Heterogeneous	<1% Cellulose	2% Quartz 98% Non-fibrous (Other)	None Detected
HSF-PACM-10-082223 <i>082301886-0010</i>		Gray/Silver Fibrous Heterogeneous	<1% Cellulose 90% Glass	10% Non-fibrous (Other)	None Detected
HSF-PACM-11-082223 <i>082301886-0011</i>		Gray/Black Non-Fibrous Heterogeneous		11% Quartz 89% Non-fibrous (Other)	None Detected
HSF-PACM-12-082223 <i>082301886-0012</i>		Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
HSF-PACM-13-082223 <i>082301886-0013</i>		Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
HSF-PACM-14-082223 <i>082301886-0014</i>		Black Non-Fibrous Heterogeneous	<1% Cellulose	2% Quartz 98% Non-fibrous (Other)	None Detected
HSF-PACM-15-082223 <i>082301886-0015</i>		Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
HSF-PACM-16-082223 <i>082301886-0016</i>		Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 08/23/2023 15:21:00



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
HSF-PACM-17-082223 <i>082301886-0017</i>		Black Non-Fibrous Heterogeneous	<1% Cellulose 20% Glass	80% Non-fibrous (Other)	None Detected
HSF-PACM-18-082223 <i>082301886-0018</i>		Gray Fibrous Homogeneous		72% Non-fibrous (Other)	28% Chrysotile
HSF-PACM-19-082223 <i>082301886-0019</i>		Gray Fibrous Homogeneous		73% Non-fibrous (Other)	27% Chrysotile
HSF-PACM-20-082223 <i>082301886-0020</i>		Gray/White Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile

Analyst(s)

Ashton Bullock (7)

Kassandra Maraz (6)

Madeline Ryan (7)

Richard Harding, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Plymouth, MI NVLAP Lab Code 101048-4

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